



# Minutes

August 16, 2016

Subject/Client: South Dayton Dump & Landfill -  
Vapor Intrusion Mitigation  
Respondents to the Removal ASAO

Ref. No. 038443-201

*Handwritten initials*

From: Julian Hayward

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Venue/Date/Time: August 4, 2016, 2:30 PM ET

Copies To: All Attendees and Absentees

Attendees: Steve Renninger, USEPA  
Leslie Patterson, USEPA  
Maddie Adams, Ohio EPA  
Ken Brown, ITW  
Jim Campbell, EMI  
Julian Hayward, GHD  
Valerie Chan, GHD  
Brent Ramdial, GHD

Absent: Tom Hut, PHDMC  
Wendell Barner, TRW  
Bryan Heath, NCR  
Brandon Helm, Tetra-Tech

Item Description	Action
1. Roll Call	GHD
2. Methane Monitoring Results: <ul style="list-style-type: none"><li>GHD completed semi-annual methane monitoring at GP-2 and Site area soil gas probes (GP-7, GP-12, GP22-13, GP23-13, GP24A-13, and GP24B-13) on July 21, 2016. Methane was detected at GP-2 (12') (16') at levels greater than 100% of the Lower Explosive Limit (LEL) (5% methane by volume in air). Methane was not detected at the Site area soil gas probes during the July 2016 methane monitoring events.</li><li>In accordance with Addendum 2 of the VI Work Plan (GHD, 2015), GHD increased the monitoring frequency from Tier 3 (semi-annually) to Tier 2 (weekly) status and completed a second round of methane monitoring at GP-2 and Site area soil gas probes on July 29, 2016. The monitoring includes filtered and unfiltered samples (analyzed using a Landtec GEM2000) to distinguish between methane and other organic compounds. Unfiltered methane levels remained greater than the LEL.</li><li>Methane was not detected at the Site area soil gas probes during the July 2016 methane monitoring events and has not been detected at these probes since September 12, 2013. Based on the non-detect methane readings at the Site area soil gas probes over the past three years, the elevated levels detected at GP-2 are not related to landfill activities from the</li></ul>	GHD

## GHD

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<p>South Dayton Dump Site and are not the result off-Site migration.</p> <ul style="list-style-type: none"> <li>• GHD proposed to modify Addendum 2 to reduce the frequency of methane monitoring because the field monitoring results indicate that the elevated methane readings at GP-2 are unrelated to landfill activities from the South Dayton Site.</li> <li>• USEPA requested GHD collect a SUMMA canister sample for analysis of TO-15 from GP-2 in order to determine the percentage of VOCs and methane in the soil gas and to evaluate GHD's proposal to revise the monitoring frequency at GP-2.</li> <li>• USEPA recommended GHD notify Dayton Power &amp; Light (DP&amp;L) and City of Moraine of the seasonal elevated levels of methane and the potential explosion hazard within the Dryden Road right of way.</li> <li>• GHD will continue to monitor methane at GP-2 and Site area soil gas probes weekly in accordance with Addendum 2 of the VI Work Plan, while additional analytical data is obtained.</li> </ul>	
<p><b>3. SSDS Modification Status Update:</b></p> <ul style="list-style-type: none"> <li>• <u>Building 24 (Globe Equipment)</u> <ul style="list-style-type: none"> <li>- Sub-slab (SS) and indoor air (IA) in compliance.</li> <li>- USEPA and Respondents agreed that no further modifications or adjustments to the sub-slab depressurization system (SSDS) are required.</li> <li>- Next Step: Annual monitoring in Winter 2017.</li> </ul> </li> <li>• <u>Building 15 (SIM Trainer)</u> <ul style="list-style-type: none"> <li>- The current SSDS configuration produces good vacuum at all compliance points.</li> <li>- There are no SS exceedances at SIM Trainer.</li> <li>- Indoor air concentration at IA-15-C is greater than Ohio Department of Health (ODH) screening levels for tetrachloroethene (PCE); however PCE was not detected in the corresponding SS-15-C sample and therefore is not related to vapor intrusion.</li> <li>- No further modifications or adjustments to the SSDS are required.</li> <li>- Next Step: Annual monitoring in Winter 2017.</li> </ul> </li> <li>• <u>Building 14 (NexGen Vending)</u> <ul style="list-style-type: none"> <li>- There are no indoor air exceedances at NexGen Vending.</li> <li>- Trichloroethene (TCE) and 1,1-dichloroethane (1,1-DCA) concentrations in SS soil vapor samples collected at SS-14-A are</li> </ul> </li> </ul>	GHD/USEPA



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<p>greater than ODH screening levels and have increased compared to previous results, including 2012 pre-mitigation results.</p> <ul style="list-style-type: none"><li>- The increase in vacuum during the June 2016 sampling event may be related to the increase in SS concentrations.</li><li>- Next Steps: USEPA and Respondents agree to complete adjustments to the SSDS valves in order to obtain optimal vacuum response. GHD will collect real time readings with a PID during the valve adjustments.</li><li>- Confirmatory sampling after SSDS valve and vacuum adjustments.</li></ul> <ul style="list-style-type: none"><li>• <u>Building 12 (S&amp;J Precision)</u><ul style="list-style-type: none"><li>- Good vacuum responses to the SSDS modifications.</li><li>- There are no IA exceedances at S&amp;J Precision.</li><li>- TCE concentrations in SS soil vapor at SS-12-SJ-B have decreased compared to previous results; however concentrations remain greater than the ODH screening levels.</li><li>- USEPA requests that GHD develop a hybrid annual sampling program that is protective of indoor air at S&amp;J Precision, prior to committing to annual monitoring.</li><li>- Next Step: Provide USEPA with a hybrid sampling program for annual monitoring at Building 12 (S&amp;J Precision).</li></ul></li><li>• <u>Building 12 (Overstreet Painting)</u><ul style="list-style-type: none"><li>- TCE concentrations in SS soil vapor samples collected at SS-12-OP-A and SS-12-OP-B are greater than the ODH screening level and have increased compared to 2015 results; possibly due to a decrease in vacuum at the extraction points.</li><li>- Concentrations of three analytes (benzene, m&amp;p xylenes, and naphthalene) exceeded IA ODH screening levels, but are not detected in corresponding SS samples and are not attributable to vapor intrusion. GHD personnel noted that vehicles are being stored in the building and at least one was leaking fluids.</li><li>- Next Steps: USEPA and Respondents agree to complete adjustments to the to the SSDS valves in order to obtain optimal vacuum response. GHD will collect real time readings with a PID during the valve and vacuum adjustments.</li><li>- Confirmatory sampling after SSDS valve and vacuum adjustments.</li></ul></li><li>• <u>Building 9 (B&amp;G Equipment and Truck Repair)</u><ul style="list-style-type: none"><li>- TCE concentration in SS soil vapor has decreased significantly but</li></ul></li></ul>	



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<p>remains greater than ODH screening level.</p> <ul style="list-style-type: none"> <li>- Benzene and xylene concentrations in IA were greater than the ODH screening levels; however benzene and xylene are not detected (or detected at low levels) in the SS and the IA exceedances are not attributed to vapor intrusion.</li> <li>- USEPA and Respondents agreed that no further modifications to the SSDS are required.</li> <li>- Respondents propose to move to annual sampling. All parties acknowledge that SS concentrations remain greater than ODH screening levels; therefore, the building is not in compliance. As a result, USEPA requests that GHD develop a hybrid annual sampling program that is protective of indoor air at Building 9, prior to committing to annual monitoring.</li> <li>- Next Step: Provide USEPA with a hybrid sampling program for annual monitoring at Building 9.</li> <li>• <u>Building 8 (B&amp;G Equipment and Truck Repair)</u> <ul style="list-style-type: none"> <li>- TCE concentrations in SS are greater than the ODH screening level.</li> <li>- Benzene concentrations in IA are greater than ODH screening levels.</li> <li>- IA concentrations are not attributable to sub-slab conditions/vapor intrusion.</li> <li>- No further modifications to the SSDS are required as vacuum response at the worst-case sub-slab probe are good and vapor intrusion is not occurring.</li> <li>- USEPA requests that GHD develop a hybrid annual sampling program that is protective of indoor air at Building 8, prior to committing to annual monitoring.</li> <li>- Next Step: Provide USEPA with a hybrid sampling program for annual monitoring at Building 8.</li> </ul> </li> </ul>	
<p><b>4. Next Steps</b></p> <ul style="list-style-type: none"> <li>• Draft Hybrid Annual Sampling Programs for Buildings 8, 9, and 12 (S&amp;J Precision).</li> <li>• Complete SSDS valve adjustment and real time monitoring of vacuum response at Building 12 (Overstreet Painting) and Building 14.</li> <li>• Notify interested parties (City of Moraine, DP&amp;L) of the seasonal elevated levels of methane and the potential explosion hazard within the Dryden Road</li> </ul>	USEPA/GHD



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right of way. <ul style="list-style-type: none"><li>Collect a 1-hour sample in a 6 L SUMMA canister at GP-2 (two depths) for analysis of the TO-15 VOC list and methane if and only if the field measurements show the presence of methane.</li></ul>	
<b>5. Next Conference Call</b> Next conference call: Thursday September 22, 2016 at 2:30 PM ET / 1:30 PM CT	

☐ Attachments: \_\_\_\_\_

This confirms and records GHD's interpretation of the discussions which occurred and our understanding reached during this meeting. Unless notified in writing within 7 days of the date issued, we will assume that this recorded interpretation or description is complete and accurate.